

IN THE CLAIMS

1. -- 4. (canceled)

5. (currently amended) ~~The~~ A flexible self-expandable stent according to ~~claim 4~~, comprising:

hollow cylindrical inside and outside stent bodies fabricated by knitting first and second super-elastic shape memory alloy wires to make a net-like structure of each of the inside and outside stent bodies in that the first wire, which is zigzagged with a diagonal length P in a longitudinal direction of each of the inside and outside stent bodies, is interlocked with the second wire, which is zigzagged with a diagonal length 2P in the longitudinal direction, at different positions to form a plurality of interlocked points capable of allowing each of the inside and outside stent bodies to contract and expand in the longitudinal direction, with a plurality of intersecting points being formed by a repeated intersection of the first and second wires at a plurality of positions between the interlocked points to allow each of the inside and outside stent bodies to apply a force against the longitudinal contraction thereof, and a plurality of diamond-shaped meshes being defined by the interlocked points and the intersecting points, the first and second wires being thus interlocked with each other to be prevented from being separated from each other while allowing each of the inside and outside stent bodies to contract and expand; and

a hollow rubber tube closely fitted between the inside and outside stent bodies, the hollow rubber tube having a length similar to a length of each of the inside and outside stent bodies, with each of overlapped ends of the rubber tube and the inside and outside stent bodies being integrating into a single structure,

wherein each of the overlapped ends of the rubber tube and the inside and outside

stent bodies is sewn with a thread by stitching to form a sewn end, and the sewn end is immersed in a polyurethane solution to form a resin-impregnated part, thus being integrated into the single structure.

6. (canceled)

7. (currently amended) The A flexible self-expandable stent ~~according to claim 6~~, comprising:

hollow cylindrical inside and outside stent bodies each comprising first and second super-elastic shape memory alloy wires knitted into a net-like structure with the first wire zigzagged with a diagonal length P in a longitudinal direction and the second wire zigzagged with a diagonal length 2P in the longitudinal direction at a plurality of interlocked points in the longitudinal direction with intersecting points between the interlocked points; and a hollow rubber tube closely fitted between the inside and outside stent bodies between overlapped ends of the rubber tube and the inside and outside stent bodies, the overlapped ends being held together,

wherewith the overlapped ends of the rubber tube and the inside and outside stent bodies are held together with thread stitching and an impregnated polyurethane.